

**Accession Nbr :**

1990-195269 [26]

**Sec. Acc. CPI :**

C1990-084470

**Sec. Acc. Non-CPI :**

N1990-151918

**Title :**

Tuber-specific expression cassette - for prodn. of transgenic potato plants

**Derwent Classes :**

B04 C03 D16 P13

**Patent Assignee :**

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**Nbr of Patents :**

14

**Nbr of Countries :**


18

**Patent Number :**


 EP-375092 A 19900627 DW1990-26 14p \*


AP: 1989EP-0250117 19891218


DSR: AT BE CH DE ES FR GB GR IT LI LU NL SE

 DE3843627 A 19900705 DW1990-28

AP: 1988DE-3843627 19881221

 CA2006454 A 19900621 DW1990-36

 DK8906515 A 19900622 DW1990-43

 JP02283276 A 19901120 DW1991-01

AP: 1989JP-0329772 19891221

US5436393 A 19950725 DW1995-35 A01H-001/04 10p  
AP: 1989US-0454363 19891221; 1992US-0995911 19921222

EP-375092 B1 19960124 DW1996-09 C12N-001/21 Ger 14p  
AP: 1989EP-0250117 19891218  
DSR: AT BE CH DE ES FR GB GR IT LI LU NL SE

DE58909581 G 19960307 DW1996-15 C12N-001/21  
FD: Based on EP-375092  
AP: 1989DE-5009581 19891218; 1989EP-0250117 19891218

ES2086315 T3 19960701 DW1996-33 C12N-001/21  
FD: Based on EP-375092  
AP: 1989EP-0250117 19891218

IL--92838 A 19971120 DW1998-09 C12N-015/29  
AP: 1989IL-0092838 19891221

US5723757 A 19980303 DW1998-16 A01H-005/00 10p  
FD: CIP of US5436393  
AP: 1989US-0454363 19891221; 1992US-0995911 19921222; 1995US-0448110 19950523

CA2006454 C 19990727 DW1999-49 C12N-015/82 Eng  
AP: 1989CA-2006454 19891221

JP2993979 B2 19991227 DW2000-06 C12N-015/09 17p  
FD: Previous Publ. JP2283276  
AP: 1989JP-0329772 19891221

DK-175753 B 20050207 DW2005-12 C12N-001/21  
FD: Previous Publ. DK8906515  
AP: 1989DK-0006515 19891220

**Priority Details :**

1988DE-3843627 19881221

**Citations :**

8.Jnl.Ref

**IPC s :**

A01H-001/04 A01H-005/00 C12N-001/21 C12N-015/09 C12N-015/29  
C12N-015/82 A01H-001/00 C07H-021/00 C07H-021/04 C12N-005/00  
C12N-005/04 C12N-005/10 C12N-015/00 C12N-015/70 C12P-019/34

**Abstract :**

EP-375092 A

The following are claimed: (A) Agrobacteria contg. an expression cassette which contains potato tuber-specific regulatory regions and can be incorporated into a plant genome; (B) plasmid pBI 101-B33, comprising a 13.5 kb DNA sequence contg. the 1.527 kb DraI/DraI fragment of the patatin gene B33 promoter; (C) a plant genome characterised in that it is the genome of the potato or tobacco (sic); (D) potatoes contg. an expression cassette including potato tuber-specific regulatory regions; (E) the use of the patatin B33 gene for transformation of crop plants and for the regulation of endogenous prods. and the prodn. of heterologous prods. in crop plants.  
USE - The expression cassettes may be used to modify the potato genome to produce heterologous proteins (e.g. human proteins or pesticidal toxins) or to increase the nutritional value of the tubers by increasing the protein content of modifying the amino acid compsn. (14pp Dwg.No 0/3)

**EP Equiv. Abstract :**

EP-375092 B

Use of the regulatory region (promoter) of the 1,527 kb long DraI/DraI fragment which is located on the KpnI/HindIII-fragment of the patatin gene B33 between the position + 14 and the position-1513(arrows), having the specified nucleotide sequence (given in the specification), for the transformation of cultivated plants. ((Dwg.3/3))

**US Equiv. Abstract :**

US5436393 A

Prodn. of transgenic potato plants for expression of DNA in tubers comprises (a) producing an expression cassette, (b) transferring the expression cassette into potato cells, and (c) regenerating whole, intact transgenic potato plants. Expression cassette has a B33 promoter sequence of a patatin gene derived from Solanum tuberosum, a heterologous DNA sequence fused in sense orientation to the B33 promoter sequence and a DNA sequence for transcriptional and translational termination.

Also claimed are a further process for producing transgenic potato plants and plants produced by the methods.

USE - Regulating endogenous and preparing heterologous products in crops.

Genes which may be introduced encode e.g. blood factors, lymphokines, CSF, hormones etc. ((Dwg.0/3))

US5723757 A

The following are claimed: (A) Agrobacteria contg. an expression cassette which contains potato tuber-specific regulatory regions and can be incorporated into a plant genome; (B) plasmid pBI 101-B33, comprising a 13.5 kb DNA sequence contg. the 1.527 kb DraI/DraI fragment of the patatin gene B33 promoter; (C) a plant genome characterised in that it is the genome of the potato or tobacco (sic); (D) potatoes contg. an expression cassette including potato tuber-specific regulatory regions; (E) the use of the patatin B33 gene for transformation of crop plants and for the regulation of endogenous prods. and the prodn. of heterologous prods. in crop plants.  
USE - The expression cassettes may be used to modify the potato genome to

produce heterologous proteins (e.g. human proteins or pesticidal toxins) or to increase the nutritional value of the tubers by increasing the protein content of modifying the amino acid compsn. (Dwg.0/0)

**Manual Codes :**

CPI: B04-A07D5 B04-B02B1 B04-B04A B11-A B12-N01 C04-A07D5 C04-B02B1 C04-B04A C11-A C12-N01 D05-C12 D05-H03B D05-H04 D05-H12

**Update Basic :**

1990-26

**Update Equivalents :**

1990-28; 1990-36; 1990-43; 1991-01; 1995-35; 1996-09; 1996-15; 1996-33;  
1998-09; 1998-16; 1999-49; 2000-06; 2005-12

**Update Equivalents (Monthly) :**

2005-02

Search statement 2